



Water-Data Report 2008

09404900 EAST FORK VIRGIN RIVER NEAR SPRINGDALE, UT

Lower Colorado-Lake Mead Basin
Upper Virgin Subbasin

LOCATION.--Lat 37°09'51", long 112°57'28" referenced to North American Datum of 1927, in SE ¼ SW ¼ NW ¼ sec.2, T.42 S., R.10 W., Washington County, UT, Hydrologic Unit 15010008, Zion National Park, on right bank 0.7 mi upstream from Zion National Park boundary, 1.2 mi upstream from Shunes Creek, 2.7 mi southeast of Springdale, and 3.4 mi south-southeast of Zion National Park headquarters.

DRAINAGE AREA.--343 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,940 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,530 ft³/s, Jan 11, 2005, gage height, 11.91 ft from floodmark and rating curve extended above 230 ft³/s on basis of slope-area measurement at gage height 9.70 ft; minimum daily discharge, 26 ft³/s, Sep 14, 15, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 14	2205	*684	*7.25

Minimum daily discharge, 34 ft³/s, on several days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	34	45	136	49	56	91	64	43	38	37	36	40
2	34	46	60	51	58	91	63	43	38	36	37	38
3	34	46	53	54	58	68	62	42	38	36	37	36
4	34	47	56	55	55	68	58	42	38	36	37	36
5	34	48	57	219	52	69	59	41	38	37	39	36
6	34	48	55	105	53	66	59	42	38	40	40	36
7	35	49	125	62	58	66	58	41	38	39	54	36
8	36	48	80	58	58	69	58	42	37	36	40	36
9	37	48	66	57	57	69	57	43	37	36	39	37
10	38	49	59	58	58	69	56	41	37	36	37	37
11	38	49	59	58	60	70	55	39	37	36	37	37
12	39	49	57	58	60	72	54	39	37	49	37	36
13	40	49	56	58	64	74	54	39	37	39	37	36
14	41	49	55	57	75	77	55	39	37	77	37	37
15	42	49	53	58	63	73	52	38	37	60	37	36
16	42	49	55	57	61	71	52	38	36	39	37	37
17	43	48	55	52	61	67	51	38	37	37	37	37
18	44	48	56	58	62	66	53	38	36	36	37	36
19	43	48	57	58	65	67	54	38	36	36	37	36
20	43	49	57	59	70	68	51	38	36	36	37	36
21	43	49	57	59	68	70	53	40	36	37	37	36
22	46	50	54	59	70	69	47	39	36	36	37	36
23	46	52	55	58	78	68	48	39	36	36	37	36
24	46	51	56	60	76	67	49	40	36	36	37	36
25	44	51	56	59	77	67	47	40	36	36	37	36
26	44	51	53	58	75	68	46	39	36	36	37	36
27	43	51	53	62	75	70	45	38	36	37	36	37
28	45	51	49	62	76	67	46	38	36	37	36	37
29	45	51	51	53	83	67	45	38	36	42	36	37
30	44	61	53	57	---	68	44	38	36	38	36	37
31	44	---	53	52	---	70	---	38	---	36	39	---
Total	1,255	1,479	1,897	1,980	1,882	2,182	1,595	1,231	1,103	1,221	1,171	1,096
Mean	40.5	49.3	61.2	63.9	64.9	70.4	53.2	39.7	36.8	39.4	37.8	36.5
Max	46	61	136	219	83	91	64	43	38	77	54	40
Min	34	45	49	49	52	66	44	38	36	36	36	36
Ac-ft	2,490	2,930	3,760	3,930	3,730	4,330	3,160	2,440	2,190	2,420	2,320	2,170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992-2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	50.9	55.1	56.2	70.5	69.7	78.1	73.7	54.3	42.2	39.6	42.3	44.6
Max	101	74.3	62.9	215	142	156	209	143	67.5	45.6	54.0	74.6
(WY)	(2005)	(2005)	(1997)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(1997)
Min	37.0	47.0	44.7	43.3	53.8	45.6	36.8	35.4	34.4	31.7	35.7	29.6
(WY)	(2004)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(1996)	(2002)	(2006)	(2002)

09404900 EAST FORK VIRGIN RIVER NEAR SPRINGDALE, UT—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008	Water Years 1992-2008	
Annual total	16,963	18,092		
Annual mean	46.5	49.4	56.4	
Highest annual mean			109	2005
Lowest annual mean			41.6	2002
Highest daily mean	177	Aug 1	219	Jan 5
Lowest daily mean	31	Aug 5	34	Oct 1
Annual seven-day minimum	31	Aug 4	34	Oct 1
Annual runoff (ac-ft)	33,650		35,890	40,830
10 percent exceeds	58		68	73
50 percent exceeds	43		46	50
90 percent exceeds	34		36	36

